

Program

Workshop: Reactive Nitrogen Research for San Joaquin Valley Agriculture

June 4 and 5, 2013, 8:00 to 5:00

Radisson Hotel and Conference Center, 2233 Ventura Street, Fresno, California 93721

Day 1

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| 8:00 – 9:00 | Registration | Conference Foyer |
| 9:00 – 10:10 Keynotes | Welcome Keynote: The SAB's Reactive Nitrogen in the United States: the Recommendations and Beyond Keynote: Implementing the SAB report: EPA-ORD's research roadmap for reactive nitrogen | Kerry Drake, Agriculture Advisor to the Regional Administration, EPA Region 9 Otto Doering, Chair, Integrated Nitrogen Committee, EPA Science Advisory Board Anne Rea, Associate National Program Director – Nitrogen, EPA Office of Research and Development |
| 10:30 – 12:30 Session 1 Baseline conditions and models Moderator: Karl Longley, California Water Institute, CSU Fresno | California Nitrogen Assessment: Statewide Nitrogen Flows Nutrient loading in San Joaquin Valley rivers Evaluating Sources and Transport of Total Nitrogen in California Using the SPARROW Model Nitrate contamination in Tulare Basin groundwater | Ryan Haden, UC Davis Dan Sobota, Oak Ridge Institute for Science and Education and EPA ORD Dina Saleh, U.S. Geological Survey Jay Lund, UC Davis |
| 12:30 – 2:00 Lunch Lunchtime presentation | Provided for registered attendees Reactive nitrogen deposition in Rocky Mountain National Park: a case study | Brock Faulkner, Texas A&M University |
| 2:00 – 3:55 Session 2 Nr emissions to air from agricultural systems Moderator: Dena Vallano, USEPA AAAS Fellow | Nitrous oxide and NOx emissions and ammonia conversion to N2O in California cropping systems Nr air emissions from poultry feeding operations Ammonia and other nitrogen compound emission fluxes from non-enteric sources at six California dairies | Martin Burger, UC Davis William Horwath, UC Davis Ruihong Zhang, UC Davis Charles Krauter, CSU Fresno |
| 4:15 – 5:00 Synthesis | What research is needed to effectively address Nr in agricultural and ecological systems in the San Joaquin Valley? | All (facilitated discussion) |

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Day 2

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| 8:00 – 9:00 | Registration | Conference Foyer |
| 9:00 – 9:50 Keynotes | Review Day 1 Keynote: Health effects of nitrate and nitrite | Bruce Macler, EPA Region 9 |
| 9:50 – 12:00 Session 3 Environmental regulation and performance Moderator: Paul Sousa, Director of Environmental Services, Western United Dairymen | Air regulations affecting San Joaquin Valley agriculture Water regulations affecting San Joaquin Valley agriculture Nr research and environmental performance in almond production Nutrient concentrations in solid and liquid dairy manure samples | Sheraz Gill, San Joaquin Valley Air Pollution Control District Doug Patteson, Central Valley Regional Water Quality Board David Smart, UC Davis, and Gabriele Ludwig, Almond Board of California Deanne Meyer, UC Davis |
| 12:00 – 1:30 Lunch Poster session | On your own | |
| 1:30 – 3:55 Session 4 Tools for Nr management in crop agriculture systems Moderator: Aubrey White, Agricultural Sustainability Institute, UC Davis | Nutrient guidelines for the top ten California crops N management in drip and surface irrigation Decision support for N management: N Index Decision support for N management: CropManage Decision support for N management: Wateright | Daniel Geisseler, UC Davis and CDFA Stuart Styles, Cal Poly SLO Zahangir Kabir, USDA NRCS Tim Hartz, UC Davis Kaomine Vang, CSU Fresno |
| 4:15 – 5:00 Synthesis | What research is needed to effectively address Nr in agricultural and ecological systems in the San Joaquin Valley? | All (facilitated discussion) |